

***Amendments to the Claims***

**The listing of claims will replace all prior versions, and listings of claims in the application.**

1-13. (Cancelled).

14. (Previously Amended) An isolated cell population derived from human bone marrow, wherein greater than about 91% of the cells of the cell population co-express CD49c and CD90, and wherein the cell population maintains a doubling rate of less than about 30 hours after 30 cell doublings.

15-20. (Cancelled).

21. (Previously Amended) The isolated cell population of Claim 14, further including expression of p21 or p53 after between about 20 to about 50 population doublings of the cells, wherein expression of p53 is a relative expression of up to about 3000 transcripts of p53 per  $10^6$  transcripts of an 18s rRNA and expression of p21 is a relative expression of up to about 20,000 transcripts of p21 per  $10^6$  transcripts of an 18s rRNA.

22-24. (Cancelled).

25. (Previously Amended) The isolated cell population of Claim 14, wherein the cell population does not express CD34 and/or CD45.

26. (Previously Amended) The isolated cell population of Claim 14, wherein the cell population further expresses at least one trophic factor selected from the group consisting of BDNF, IL-6, NGF and MCP-1.

27-96. (Cancelled).

97. (Currently Amended) An isolated cell population obtainable from human bone marrow by steps that comprise:

- a) incubating human bone marrow cells under a low oxygen condition of about 5% oxygen such that said cells when allowed to adhere to a tissue culture-treated surface will produce adherent colony forming units (CFU); and,
- b) passaging cells in said adherent CFU at a seeding density of ~~less than about 2500~~ about 30 cells/cm<sup>2</sup>,

wherein greater than about 91% of said passaged cells co-express CD49c and CD90, and wherein said passaged cells maintain a population doubling rate of less than about 30 hours after 30 cell doublings.